

In the Claims:

Please cancel claims 1-23. Please add new claims 24-42. The claims are as follows.

1-23. (Canceled)

24. (New) An optical transmission method, comprising:

transmitting an optical signal within an integrated circuit from a first optical transmitter to a first optical receiver, said integrated circuit comprising a first glass layer that includes the first optical transmitter and a first redirection termination, a second glass layer that includes the first optical receiver and a second redirection termination, a first metal layer disposed between the first glass layer and the second glass layer, and an optical channel extending from the first redirection termination to the second redirection termination and traversing the first metal layer, said first glass layer, said second glass layer, and said optical channel each comprising optical fibers for transmission of the optical signal, said optical signal being transmitted:

in a first direction in the first glass layer from the first optical transmitter to the first redirection termination;

in a second direction in the optical channel from the first redirection termination to the second redirection termination, said second direction being oriented perpendicular to the first direction; and

in a third direction in the second glass layer from the second redirection termination to the first optical receiver, said third direction being oriented perpendicular to the second direction and parallel to the first direction.

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